

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122319\
 Data File : VD064573.D
 Acq On : 23 Dec 2019 17:29
 Operator : VA/SY
 Sample : K6406-01
 Misc : 4.95G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 C-MUCK 12.20.19

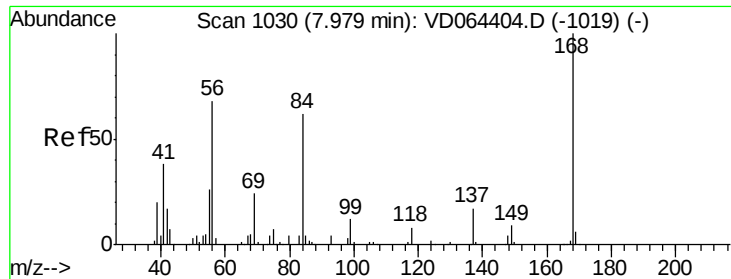
Quant Time: Dec 24 05:55:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	450739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	715184	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	748583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	412297	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	194280	47.62	ug/l	0.00
Spiked Amount						
			Recovery	=	95.24%	
35) Dibromofluoromethane	7.92	113	216818	48.12	ug/l	0.00
Spiked Amount						
			Recovery	=	96.24%	
50) Toluene-d8	10.34	98	877599	51.70	ug/l	0.00
Spiked Amount						
			Recovery	=	103.40%	
62) 4-Bromofluorobenzene	12.64	95	342946	62.87	ug/l	0.00
Spiked Amount						
			Recovery	=	125.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.25	59	419	1.613	ug/l #	100
16) Acetone	4.17	43	20916	25.369	ug/l	95
17) Carbon Disulfide	4.40	76	37427	2.909	ug/l #	93
18) Methyl Acetate	4.73	43	56388	23.447	ug/l	95
20) Methylene Chloride	4.96	84	17300	Below Cal		93
25) 2-Butanone	7.23	43	1284	1.101	ug/l #	81
30) Chloroform	7.71	83	14893	1.910	ug/l	93
31) Cyclohexane	7.98	56	9865	Below Cal	#	21
36) 1,1-Dichloropropene	7.99	75	31587	4.669	ug/l #	49
38) Carbon Tetrachloride	7.98	117	41182	5.768	ug/l #	14
55) 1,1,2-Trichloroethane	10.77	97	8505	2.449	ug/l #	24
59) 2-Hexanone	10.96	43	17279	8.917	ug/l #	28
71) Bromoform	12.64	173	4025	1.164	ug/l #	1
74) N-amyl acetate	12.27	43	96340	14.315	ug/l #	68
76) 1,2,3-Trichloropropane	12.64	75	182029	53.686	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	182029	117.064	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.59	75	204	Below Cal	#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

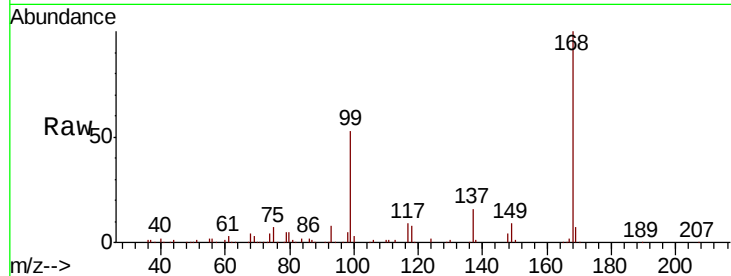
Instrument :
MSVOA_D
ClientSampleId :
C-MUCK_12.20.19

Tot Ion:168 Resp: 450739

Ion Ratio Lower Upper

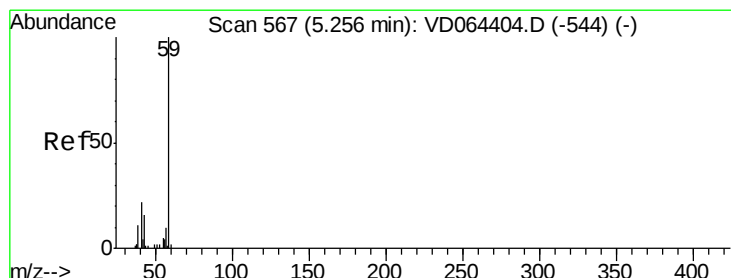
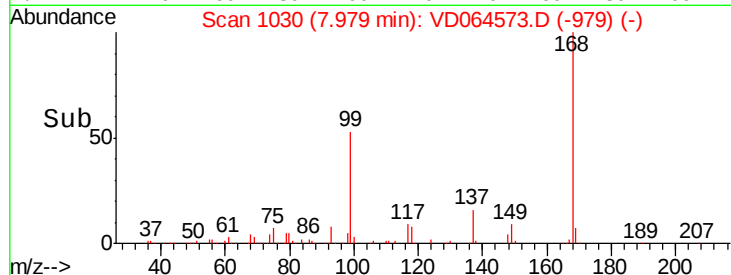
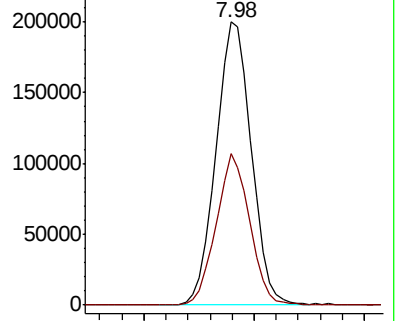
168 100

99 53.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 1.613 ug/l

RT: 5.25 min Scan# 566

Delta R.T. -0.01 min

Lab File: VD064573.D

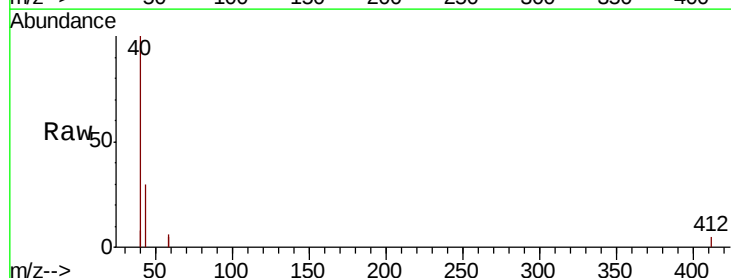
Acq: 23 Dec 2019 17:29

Tgt Ion: 59 Resp: 419

Ion Ratio Lower Upper

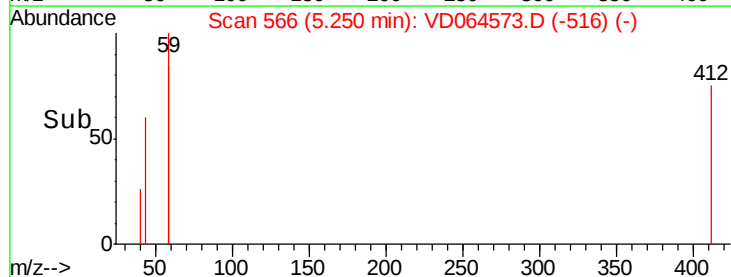
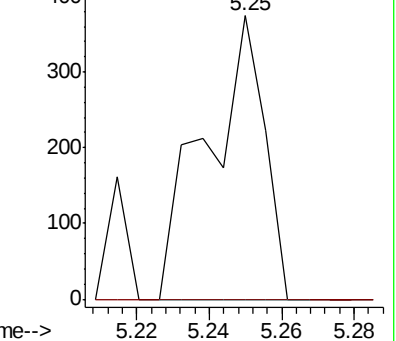
59 100

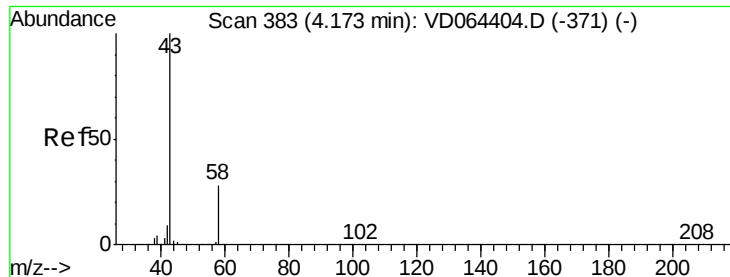
57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 25.369 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

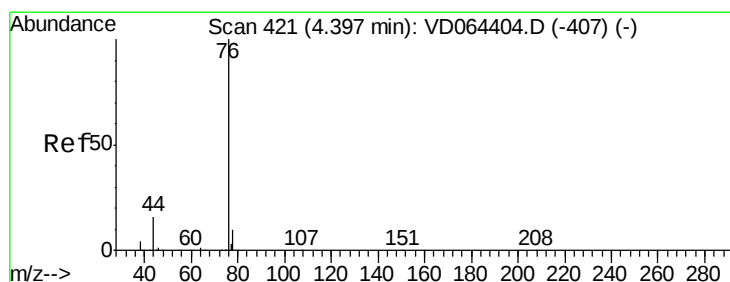
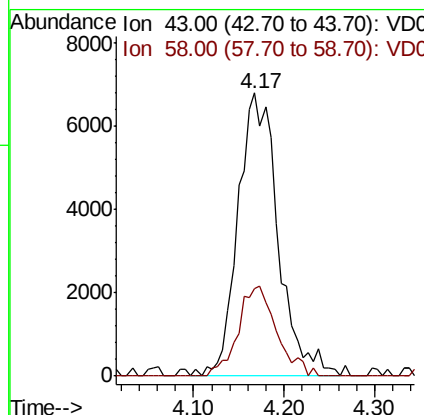
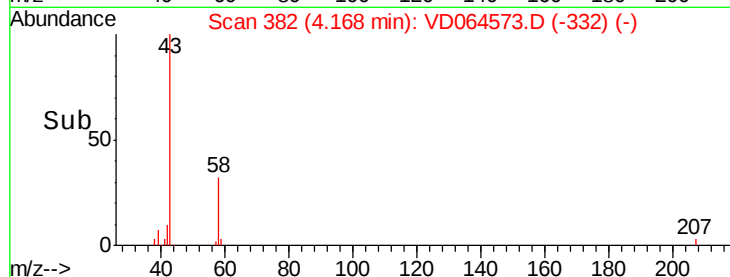
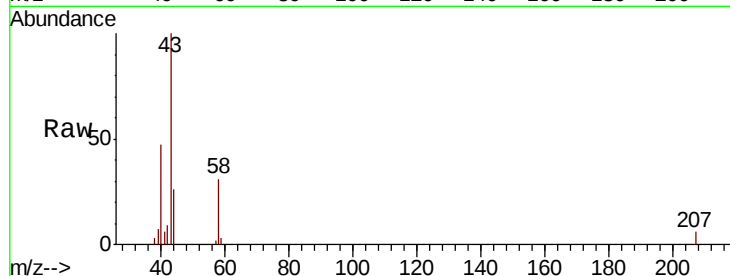
C-MUCK_12.20.19

Tot Ion: 43 Resp: 20916

Ion Ratio Lower Upper

43 100

58 30.7 22.6 33.8



#17

Carbon Disulfide

Concen: 2.909 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.01 min

Lab File: VD064573.D

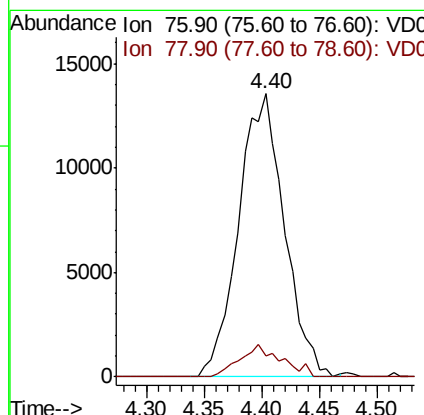
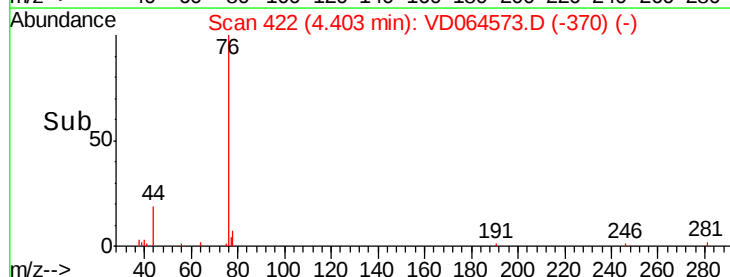
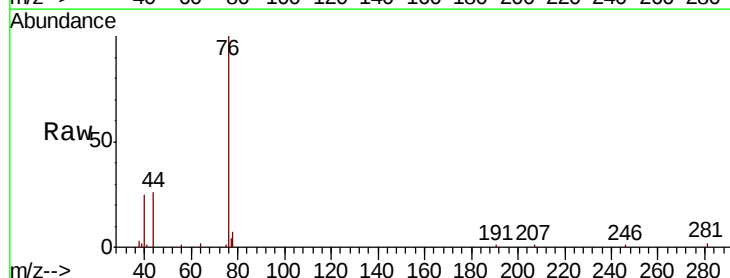
Acq: 23 Dec 2019 17:29

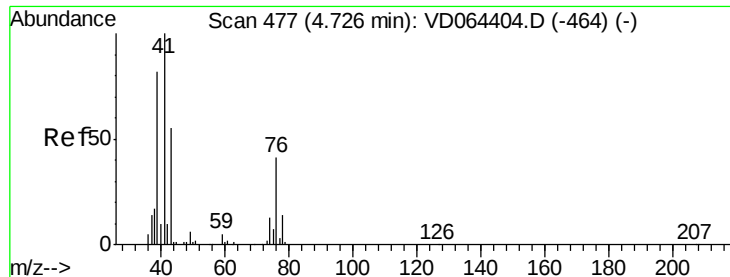
Tgt Ion: 76 Resp: 37427

Ion Ratio Lower Upper

76 100

78 7.3 7.8 11.8#

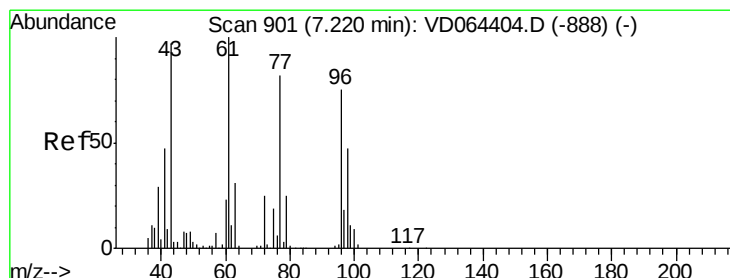
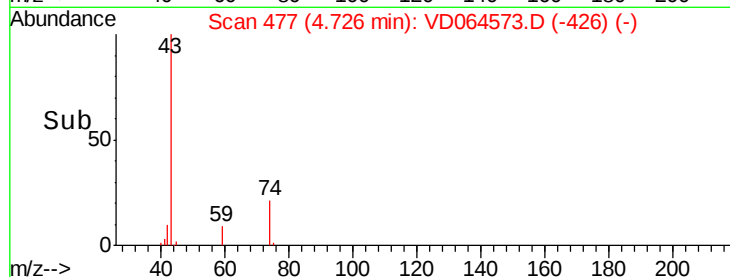
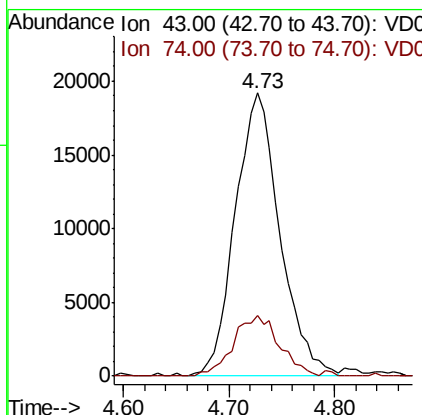
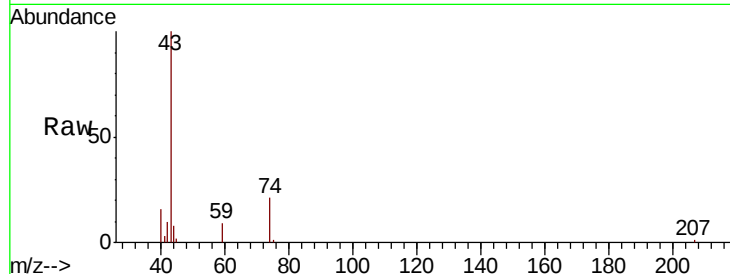




#18
Methvl Acetate
Concen: 23.447 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

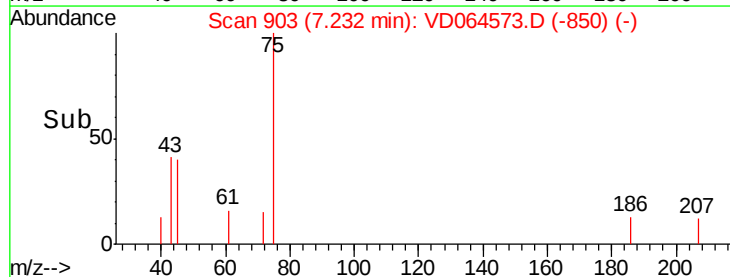
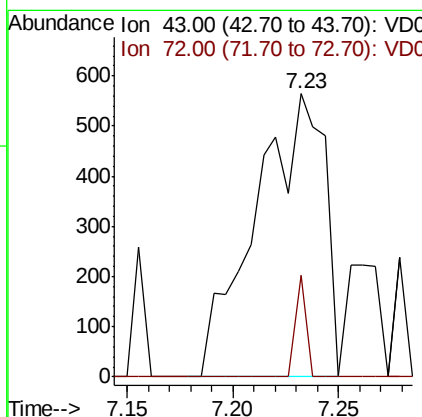
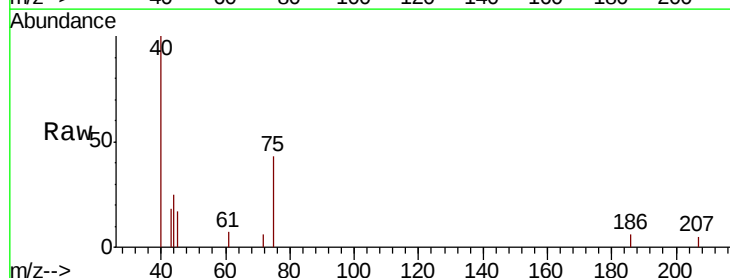
Instrument :
MSVOA_D
ClientSampleId :
C-MUCK_12.20.19

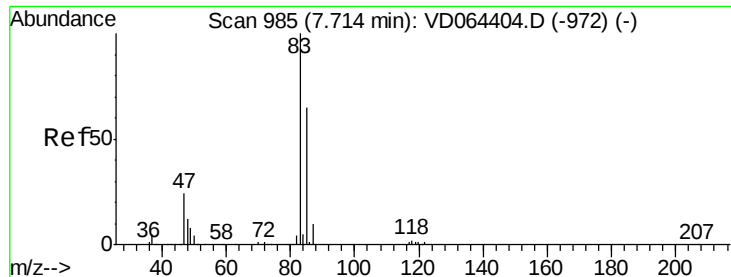
Tot Ion: 43 Resp: 56388
Ion Ratio Lower Upper
43 100
74 21.9 19.7 29.5



#25
2-Butanone
Concen: 1.101 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

Tgt Ion: 43 Resp: 1284
Ion Ratio Lower Upper
43 100
72 35.8 21.0 31.4#

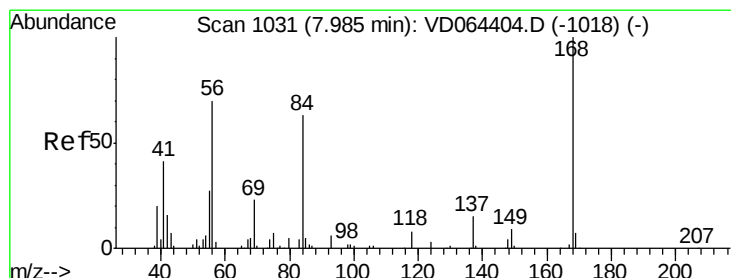
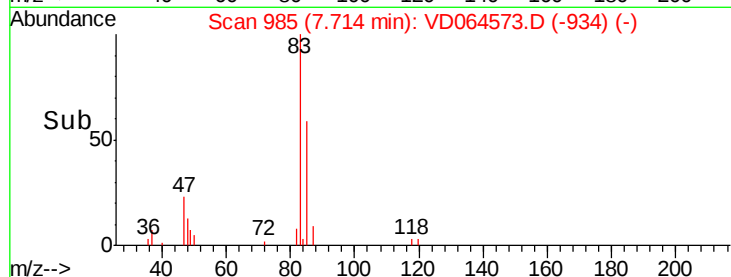
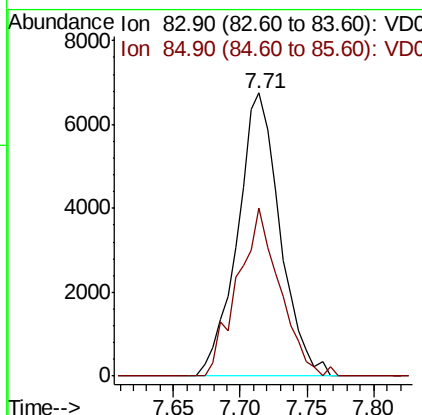
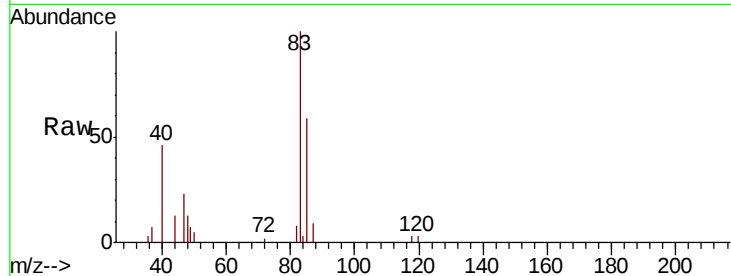




#30
Chloroform
Concen: 1.910 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

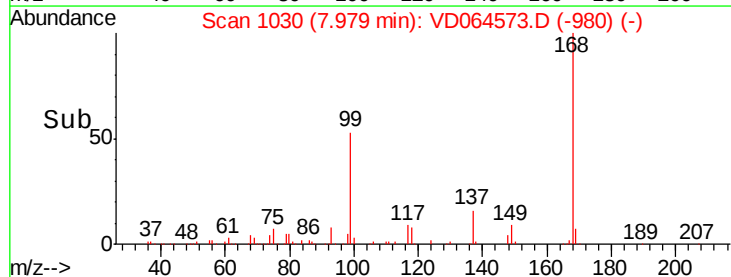
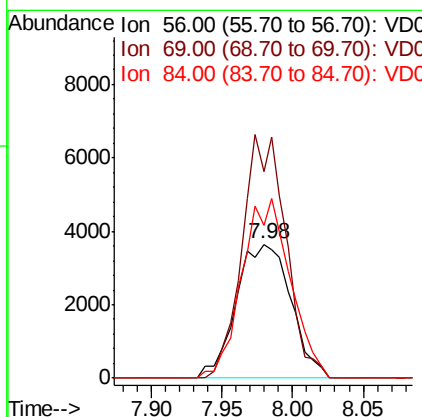
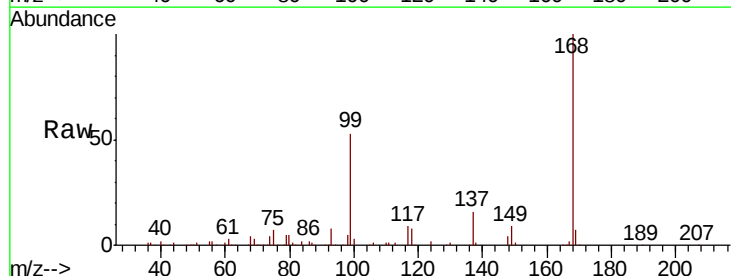
Instrument :
MSVOA_D
ClientSampleId :
C-MUCK_12.20.19

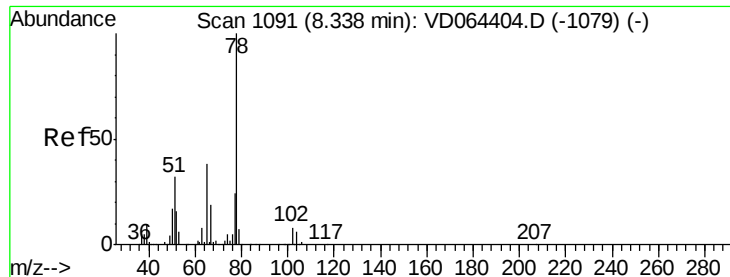
Tot Ion: 83 Resp: 14893
Ion Ratio Lower Upper
83 100
85 59.2 51.8 77.6



#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

Tgt Ion: 56 Resp: 9865
Ion Ratio Lower Upper
56 100
69 154.9 26.2 39.4#
84 114.2 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 47.619 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

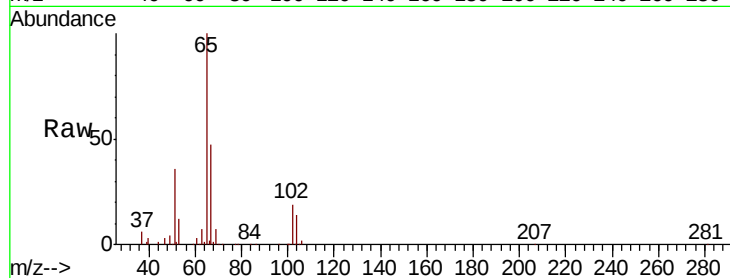
C-MUCK_12.20.19

Tot Ion: 65 Resp: 194280

Ion Ratio Lower Upper

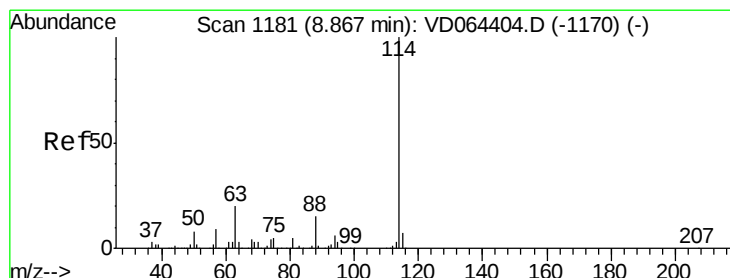
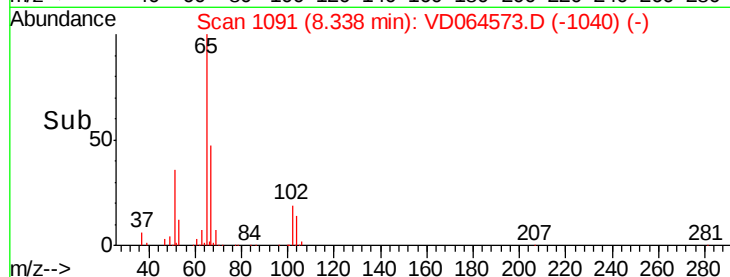
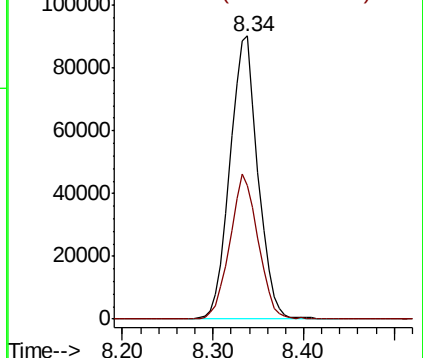
65 100

67 51.7 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

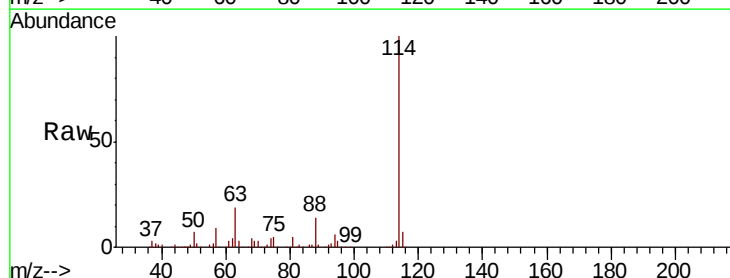
Tgt Ion: 114 Resp: 715184

Ion Ratio Lower Upper

114 100

63 18.7 0.0 40.0

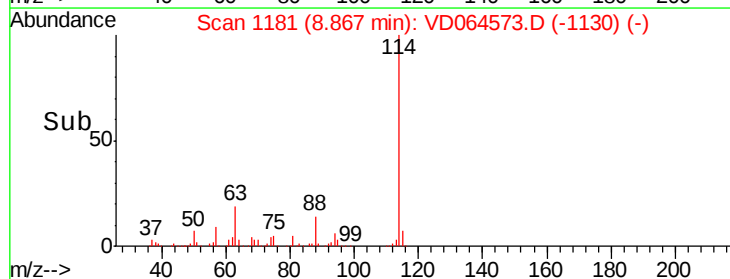
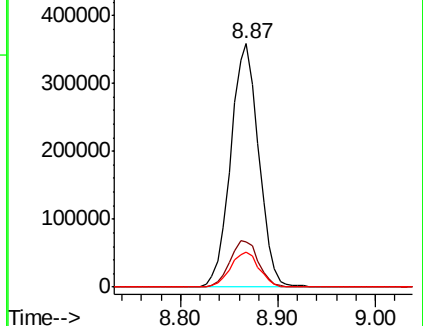
88 14.2 0.0 29.2

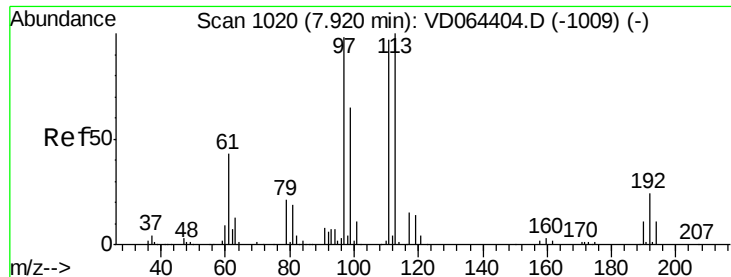


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

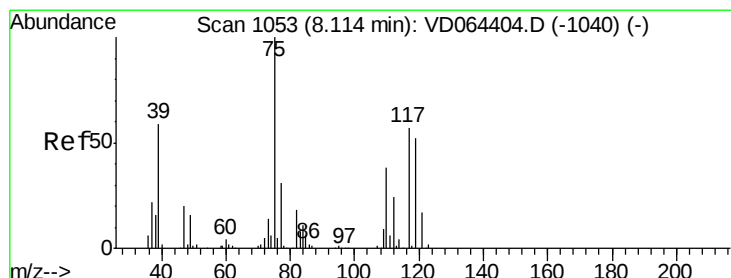
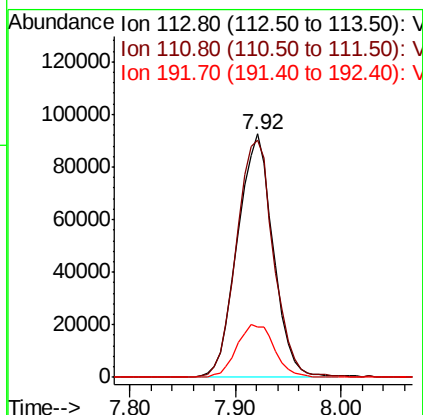
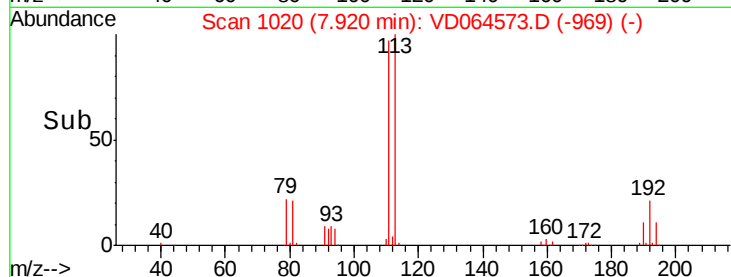
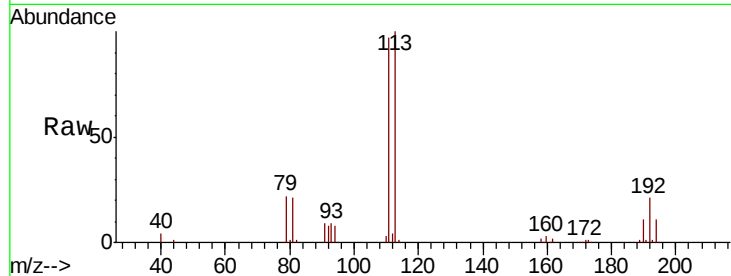




#35
Dibromofluoromethane
Concen: 48.117 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

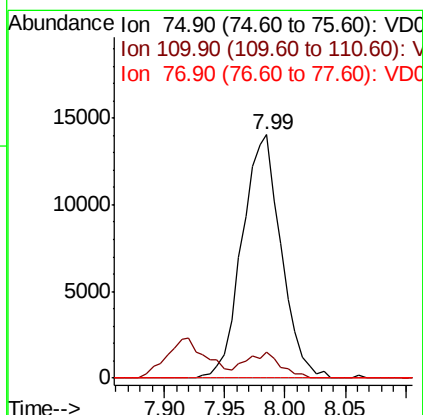
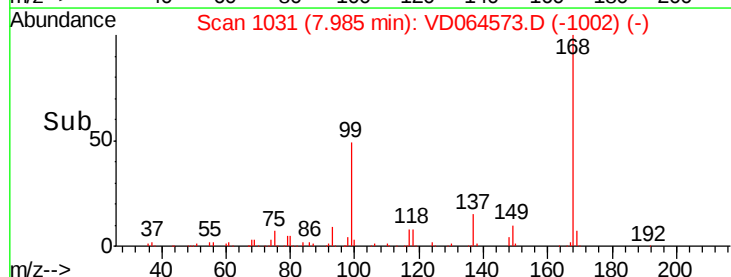
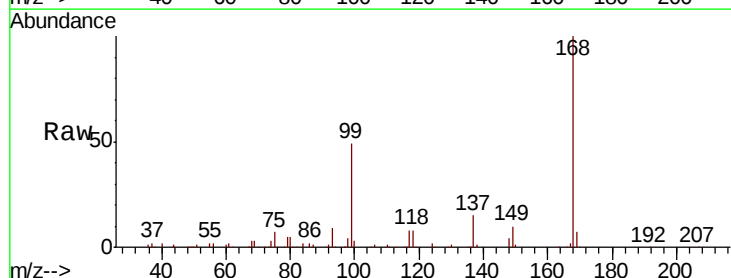
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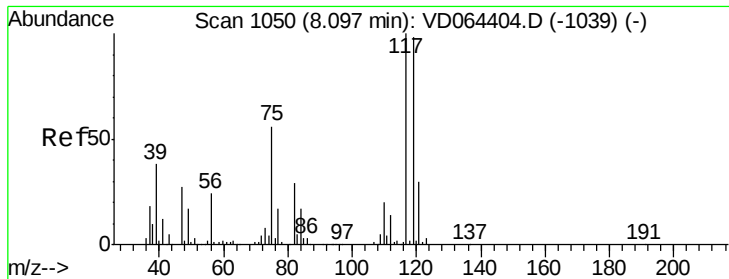
Tot Ion:113 Resp: 216818
Ion Ratio Lower Upper
113 100
111 101.6 79.4 119.2
192 23.1 18.6 28.0



#36
1,1-Dichloropropene
Concen: 4.669 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.13 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

Tgt Ion: 75 Resp: 31587
Ion Ratio Lower Upper
75 100
110 9.6 18.6 55.8#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.768 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

C-MUCK_12.20.19

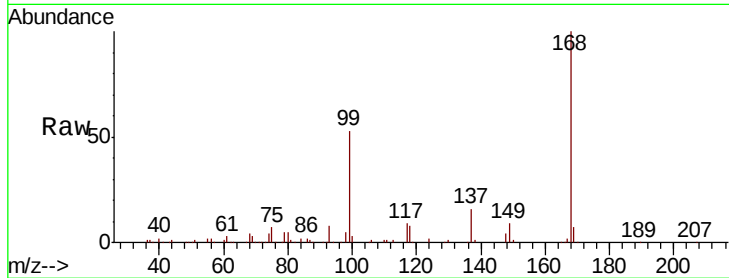
Tot Ion:117 Resp: 41182

Ion Ratio Lower Upper

117 100

119 4.5 78.8 118.2#

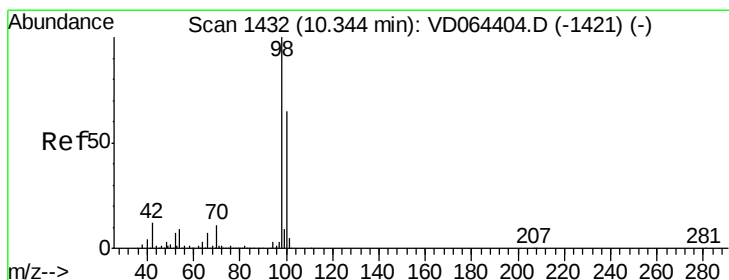
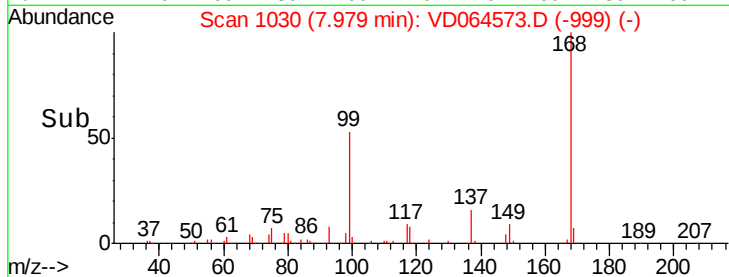
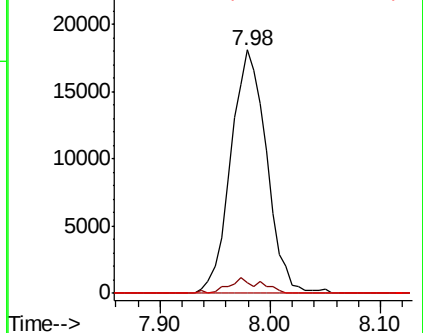
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 51.704 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064573.D

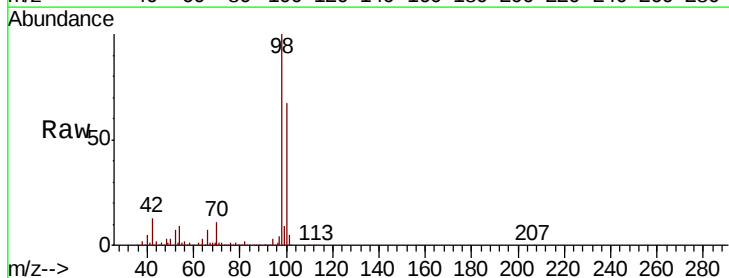
Acq: 23 Dec 2019 17:29

Tgt Ion: 98 Resp: 877599

Ion Ratio Lower Upper

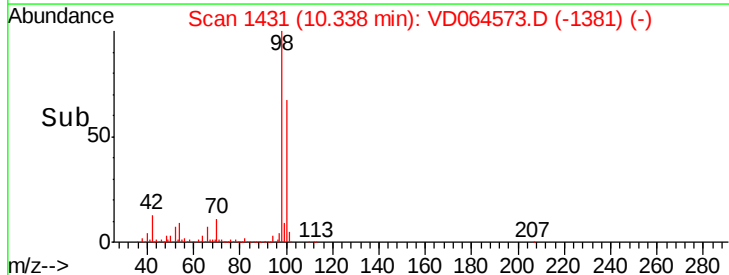
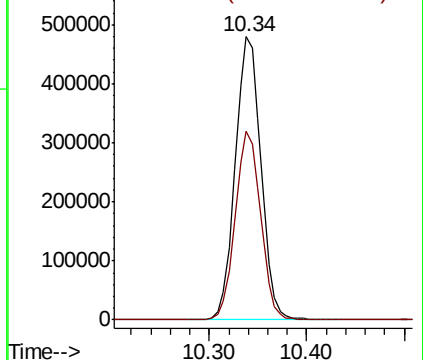
98 100

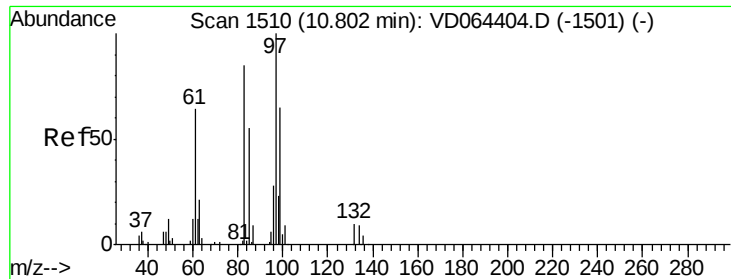
100 66.0 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

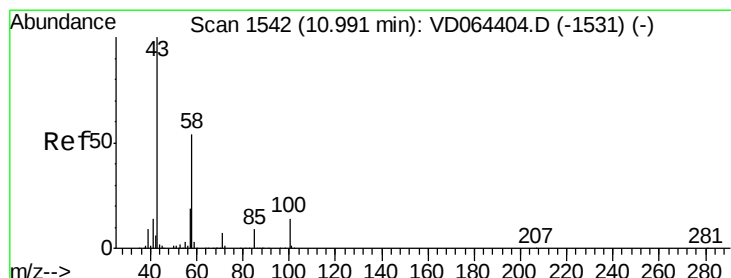
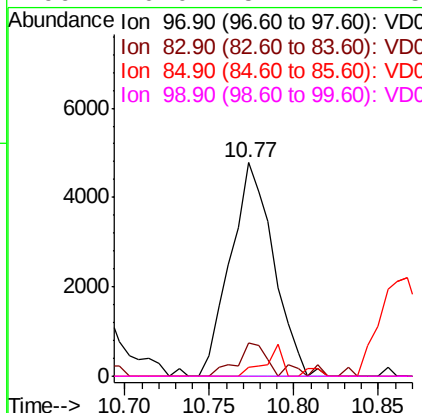
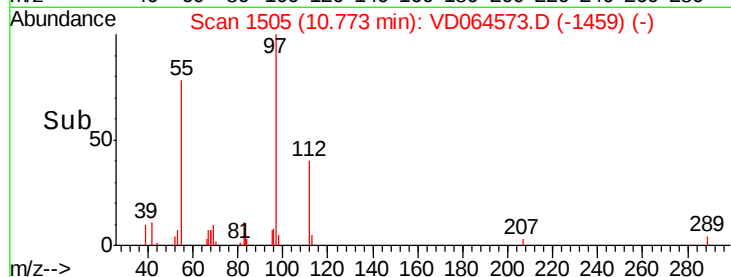
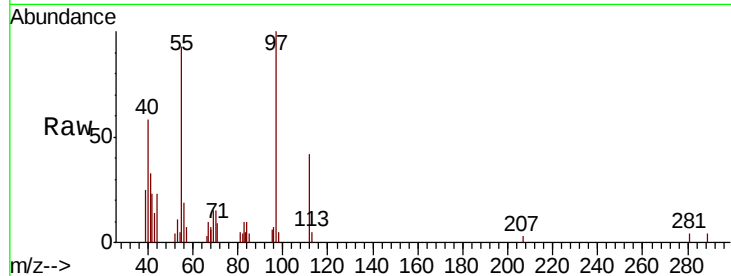




#55
 1,1,2-Trichloroethane
 Concen: 2.449 ug/l
 RT: 10.77 min Scan# 1505
 Delta R.T. -0.03 min
 Lab File: VD064573.D
 Acq: 23 Dec 2019 17:29

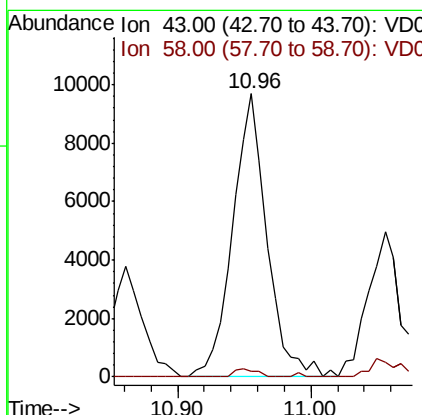
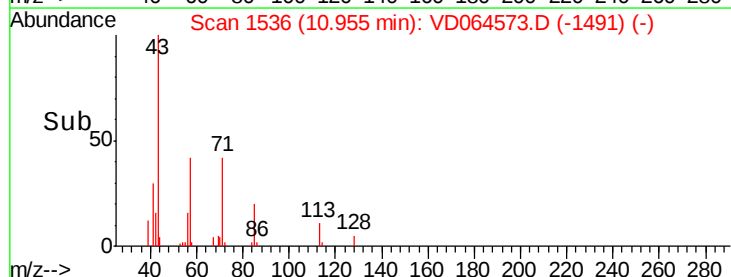
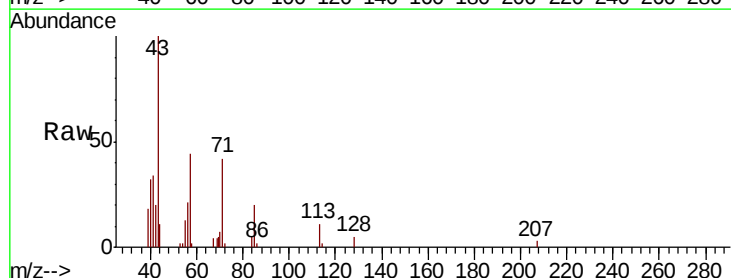
Instrument :
 MSVOA_D
 ClientSampleId :
 C-MUCK_12.20.19

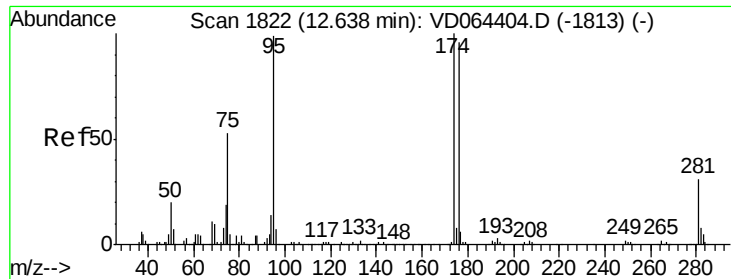
Tot Ion: 97 Resp: 8505
 Ion Ratio Lower Upper
 97 100
 83 15.3 67.8 101.8#
 85 4.0 43.7 65.5#
 99 0.0 51.7 77.5#



#59
 2-Hexanone
 Concen: 8.917 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. -0.04 min
 Lab File: VD064573.D
 Acq: 23 Dec 2019 17:29

Tgt Ion: 43 Resp: 17279
 Ion Ratio Lower Upper
 43 100
 58 1.8 26.3 78.8#

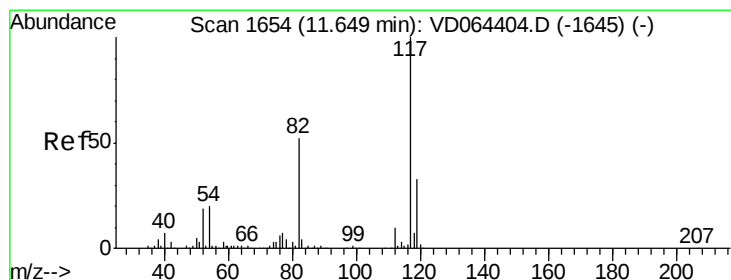
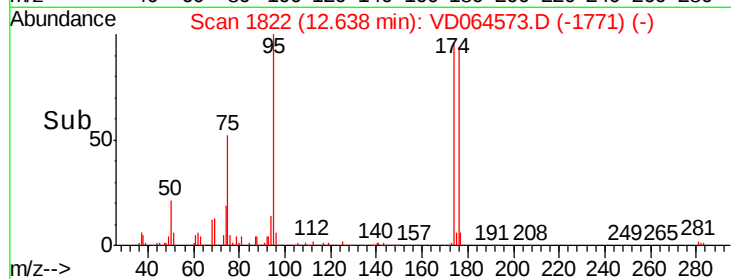
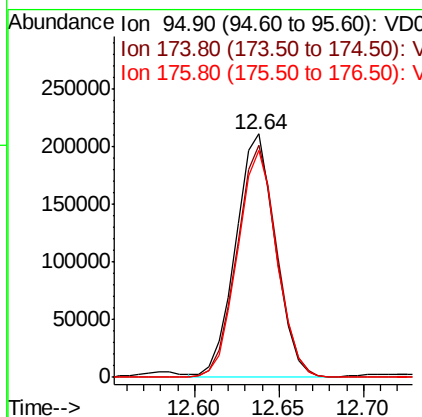
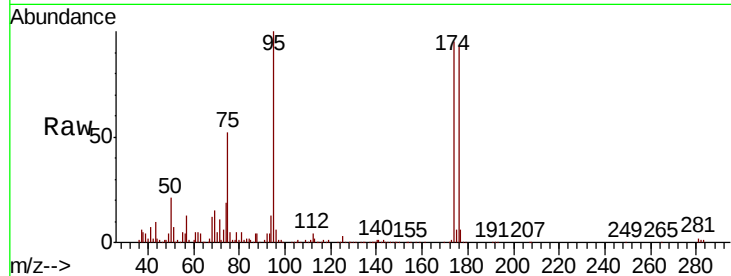




#62
4-Bromofluorobenzene
Concen: 62.870 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

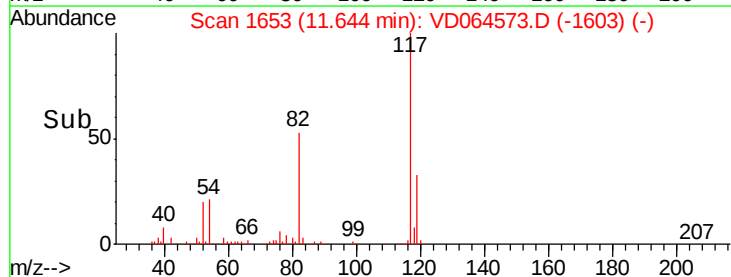
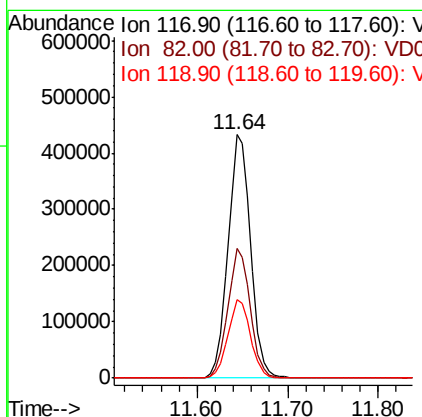
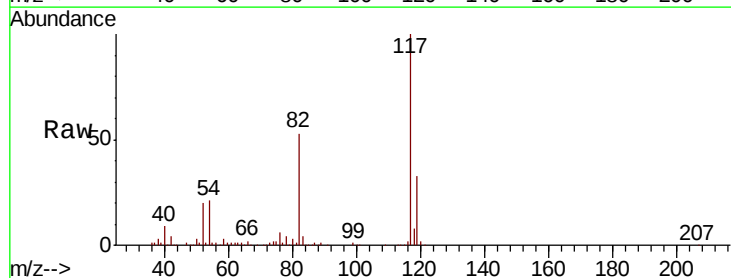
Instrument :
MSVOA_D
ClientSampleId :
C-MUCK_12.20.19

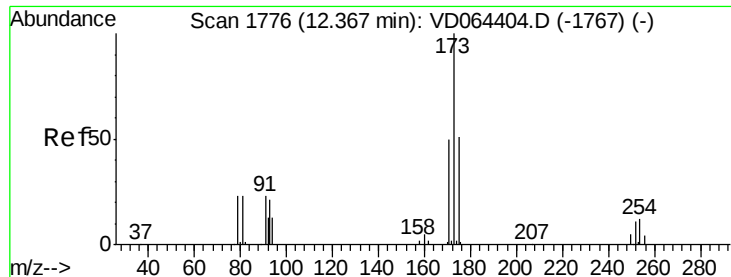
Tot Ion: 95 Resp: 342946
Ion Ratio Lower Upper
95 100
174 96.0 0.0 197.2
176 93.0 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

Tgt Ion: 117 Resp: 748583
Ion Ratio Lower Upper
117 100
82 53.3 41.4 62.2
119 32.5 26.2 39.2





#71

Bromoform

Concen: 1.164 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

C-MUCK 12.20.19

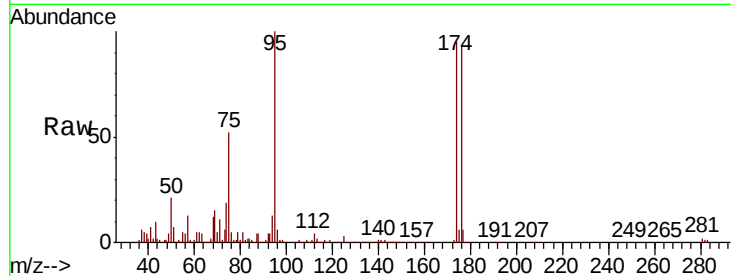
Tot Ion:173 Resp: 4025

Ion Ratio Lower Upper

173 100

175 506.2 25.3 75.8#

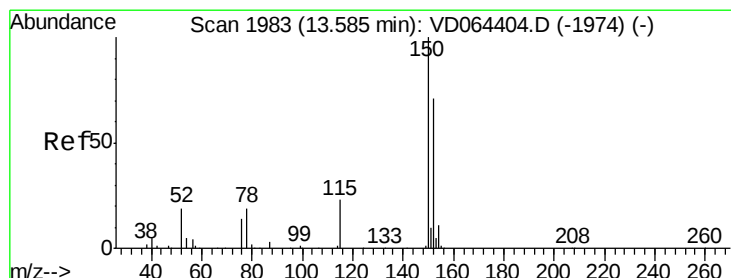
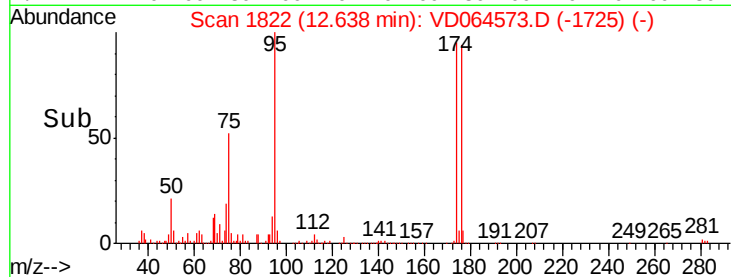
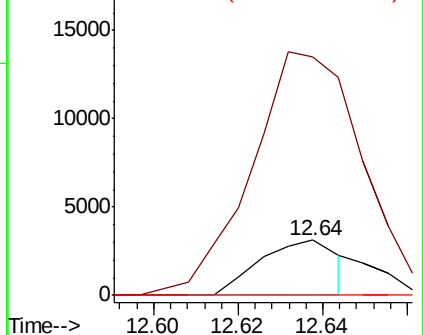
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

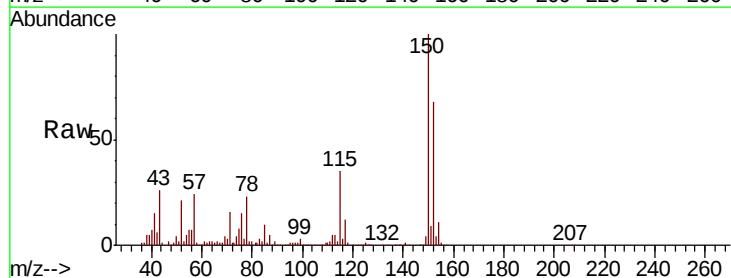
Tgt Ion:152 Resp: 412297

Ion Ratio Lower Upper

152 100

115 53.7 26.7 80.1

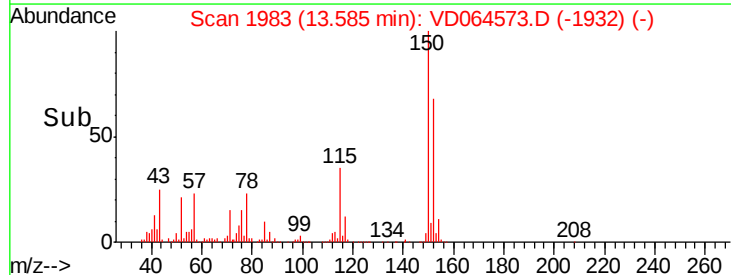
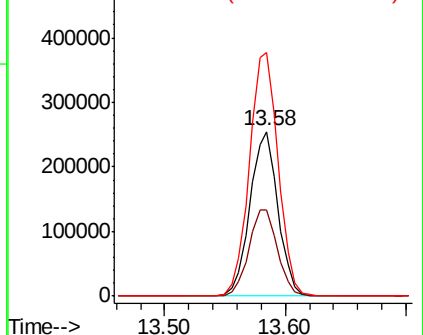
150 152.0 0.0 347.2

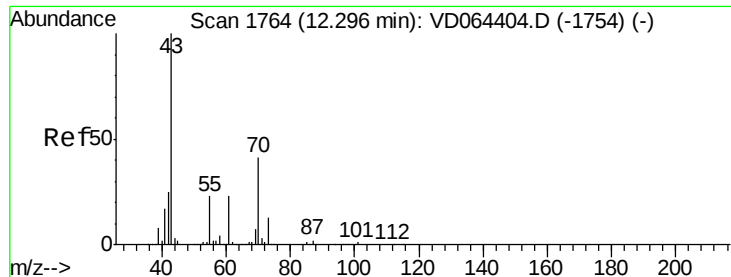


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 14.315 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.03 min

Lab File: VD064573.D

Acq: 23 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

C-MUCK_12.20.19

Tot Ion: 43 Resp: 96340

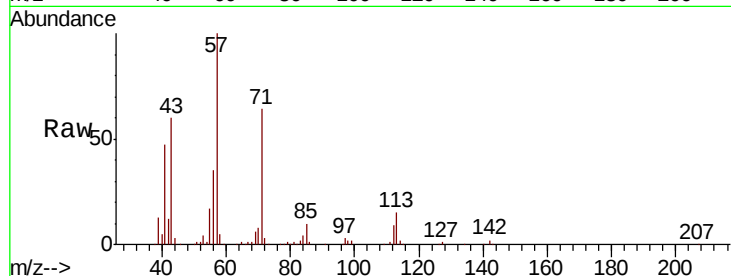
Ion Ratio Lower Upper

43 100

70 17.8 33.4 50.2#

55 26.7 18.9 28.3

61 0.0 18.5 27.7#

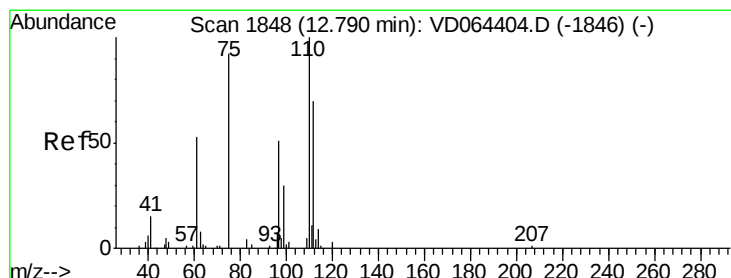
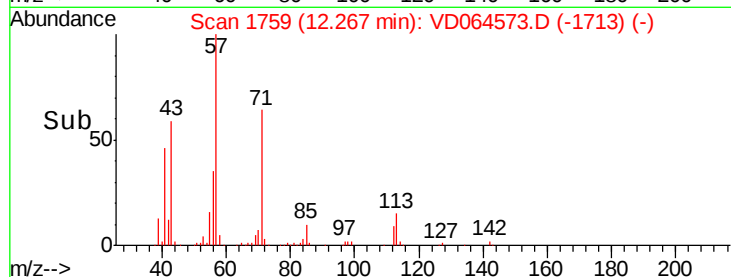
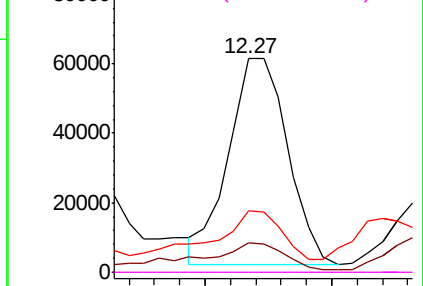


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 53.686 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064573.D

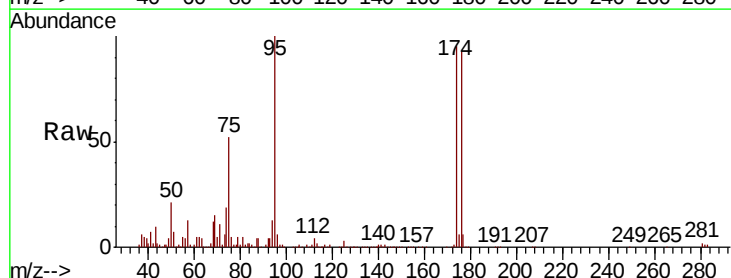
Acq: 23 Dec 2019 17:29

Tgt Ion: 75 Resp: 182029

Ion Ratio Lower Upper

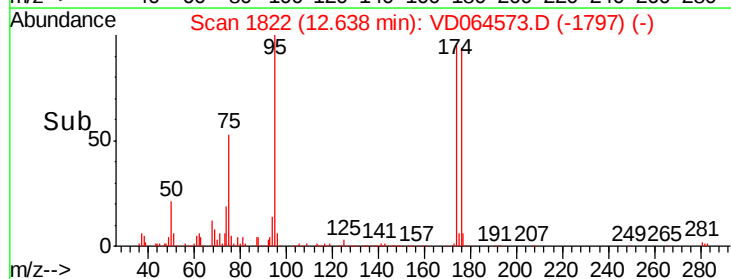
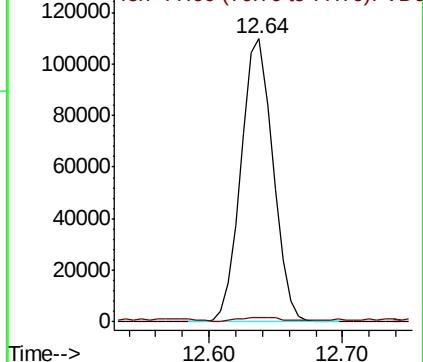
75 100

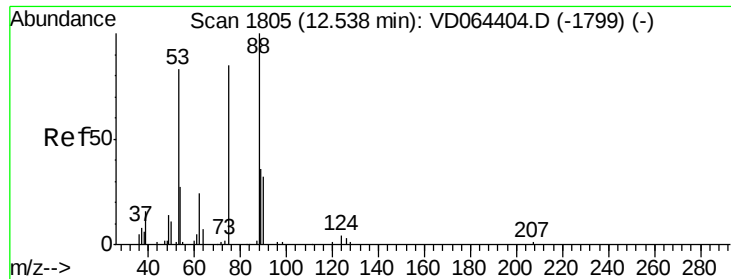
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

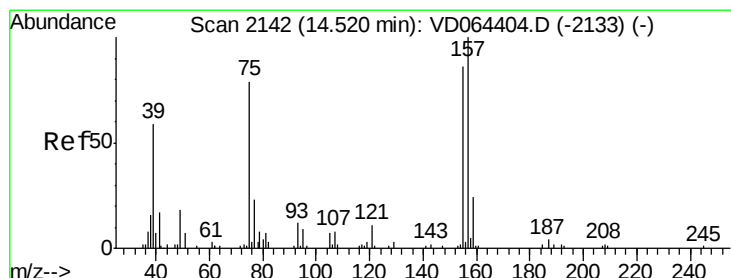
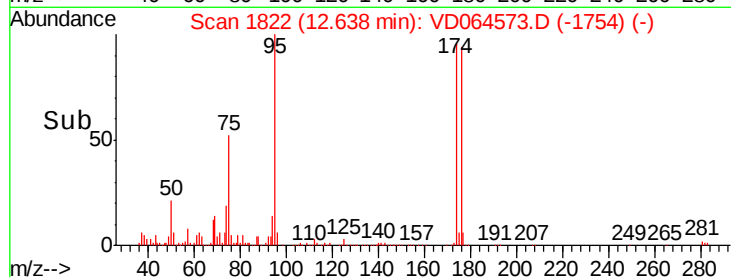
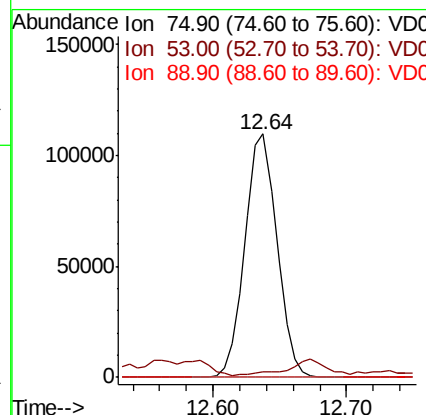
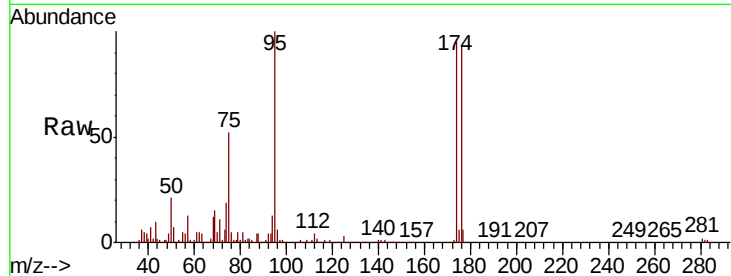




#81
trans-1,4-Dichloro-2-butene
Concen: 117.064 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.10 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

Instrument :
MSVOA_D
ClientSampleId :
C-MUCK_12.20.19

Tot Ion: 75 Resp: 182029
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.6#
89 0.0 38.5 57.7#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.59 min Scan# 2154
Delta R.T. 0.07 min
Lab File: VD064573.D
Acq: 23 Dec 2019 17:29

Tgt Ion: 75 Resp: 204
Ion Ratio Lower Upper
75 100
155 0.0 51.9 155.7#
157 0.0 63.2 189.8#

